MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2019/2020

DAC5038 – COMPUTER APPLICATIONS FOR ENGINEERING

(Diploma in Electronic Engineering)

25 OCTOBER 2019
3.00 p.m – 5.00 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **2** pages excluding the cover page with **4** questions.
2. Answer **ALL** questions.
3. Please write all your answers in the answer booklet provided.

QUESTION 1 [25 MARKS]

a) Briefly explain **TWO** examples of computer memory. [4 marks]

b) One of the way to access files if constantly switch between devices is by using cloud storage. Briefly explain what is cloud storage and state **FOUR** advantages of using it. [7 marks]

c) In the midst of Cold War, Internet was developed by two concerns. List out **TWO** reasons why internet was developed in the early days. [4 marks]

d) List all the parts for the following URL showing below.

https://www.myrobotic.com/categories/Hobby-Kit

i) Protocol:
ii) Domain name:
iii) Top-level domain:
iv) Subdirectory:

[6 Marks]

e) List **FOUR** recommendations to ensure that your online shopping experience is safe. [4 marks]

QUESTION 2 [25 MARKS]

a) Presentation software makes the ability to communicate messages to a group of people much simpler than any other delivery methods. Provide **FOUR** tips for designing good presentations. [6 marks]

b) State **TWO** examples of image-editing software and **TWO** examples of video-editing software. [4 marks]

c) What is the difference between full installation and custom installation? [4 marks]

d) Differentiate between system software and application software. Provide **TWO** examples of application for each. [11 marks]

Continued...

QUESTION 3 [25 MARKS]

a) Name the hardware of computer storage subsystem (i, ii, iii, iv, v and vi) shown in Figure 1.

[9 marks]

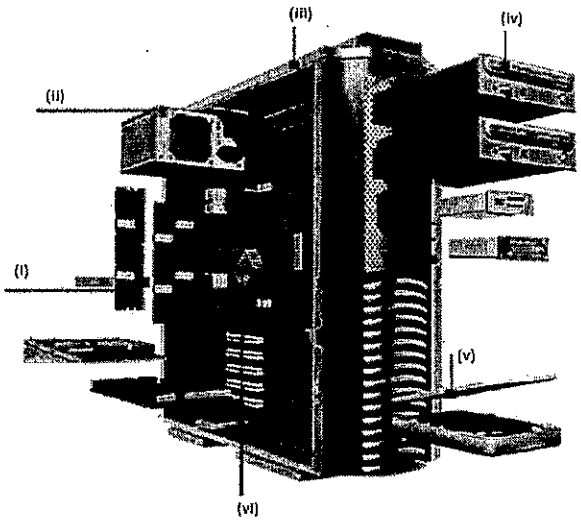

Figure 1

b) A machine cycle consists of the steps that a computer's processor executes whenever it receives a machine language instruction. Briefly explain all the **FOUR** steps.

[8 marks]

c) Briefly explain **TWO** ways to synchronise information between smartphone and computer.

[6 marks]

d) Define *Network-attached storage (NAS) devices*.

[2 marks]

QUESTION 4 [25 MARKS]

a) Differentiate between Short Message Service (SMS) and Multimedia Message Service (MMS).

[4 marks]

b) Voice over Internet Protocol (VoIP) calls can be placed from anywhere you have Internet access. Give **TWO** advantages and disadvantages of VoIP.

[4 marks]

c) Explain what is Ethical Hacking? Briefly explain **THREE** types of ethical hackers.

[11 marks]

d) Database is a collection of related data that can be stored, sorted, organized, and queried. Provide **THREE** advantages and disadvantages of databases.

[6 marks]

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